Documentation for Programming Assignment 1: “main.cpp”

Note: The program contains comments throughout the code to help the user understand its functionality.

The program prompts a user to enter a URL to then check for its validity. The user should enter the URL on a single line with no spaces. The Program uses the ‘getline’ function to store the user input into a variable.

Once the URL has been stored, the program segments it into 5 parts:

The Protocol (Http, https, etc.),

Domain (ending in .edu, .com, .gov, .biz, or .net),

Port (a number between 1- 65535),

File Path (ending in HTML or HTM),

and Parameters (starts with the ? character).

Each of these is stored in its own variable.

The program then checks the variables to see that each is valid. If they are all valid, then the program prints out each component and its value.

If the program contains any invalid components, then the program will produce an error message detailing which component is invalid.

The program ends at this point.